

CAMP GRAYLING – MK19 RANGE

April 28, 2004

Solicitation No. W911XK 04-T-0049

Section B – Supplies or Services and Prices

SCOPE OF WORK

Construct 2000 lineal feet (LF) of earth embankment, 2400 LF of track bed and 2550 LF of gravel road to the line and grade as shown on the plans. The exact alignment shall be determined in the field. The project includes the following:

1. Site preparation shall include clearing, grubbing and disposal of all trees, vegetation and debris from areas designated for construction of the earth embankment, track bed and gravel road. The Contractor shall provide and maintain access roads as required for its operations. If existing vehicle paths are used (which are not dedicated as public roadways) the Contractor shall provide any improvements required to support its vehicle traffic and shall maintain such haul roads during the course of the contract.
2. Cut and fill the existing earth embankments, proposed berms A & B, to the elevation and grade shown on the contract drawings. Satisfactory soil materials shall be placed in layers twelve (12) inches (in.) in loose thickness. Compact entire surface of each layer including slopes by equipment weighing not less than three (3) tons making two (2) complete passes.
3. Cut and fill the soils below the track bed and road to the elevation and grade shown on the contract drawings. In areas requiring fill, satisfactory soil materials shall be placed in layers twelve (12) inches (in.) in loose thickness and compacted to 95% of maximum density. The top 12 in of the entire sub grade below the track shall be compacted to 95% of maximum density.
4. Load, haul and place and compact the required owner furnished ballast stone and road gravel. The stone stockpile is approximately 1.7 miles (mi.) from the placement site. At each end of each track provide an additional stockpile of ballast stone, an equal quantity at each location.
5. Place, from topsoil stockpile, 4 in. thickness of topsoil on earth embankment. Seed, fertilize, and mulch all topsoil in accordance with MDOT specifications. The topsoil will be stockpiled by the owner at each proposed berm for use by the contractor.
6. Testing of the track and road subgrade shall be the responsibility of the Contractor and shall be performed as a part of his quality control and at no additional cost to the Government. The optimum moisture, maximum density relation for each type of material to be used for compacted fill or backfill shall be determined by the Contractor. A minimum of one (1) test for every 2000 square feet (sf) of each lift

or area, as appropriate, will be required. The tests shall be performed by a recognized commercial testing laboratory or by qualified persons employed by the Contractor for this purpose. One copy of each test report shall be furnished to the Contracting Officer.

7. Furnish labor, equipment, material and As-builts. The Contractor shall provide a topographic survey prior to and at the completion of construction with a Government Representative present. Elevations shall be taken at intervals of 100' along the centerline of the construction. At a minimum at each interval, the prior survey will include the toe and top of slope and centerline of the existing earth embankment and elevations at 10 ft. spacing extending 10 ft. beyond the limits of construction. At a minimum at each interval, the post construction survey will include the toe and top of slope and centerline of the earth embankment, track bed and gravel road and elevations 10 ft. beyond the limits of construction.
8. Contractor access shall be coordinated with the Camp Grayling Facility Engineering on a daily basis.
9. A site visit will be held at the facility on May 25, 2004 @ 10:00. Meet at the MATES Facility building 1400, 2450 N. Down River Rd. West, Grayling, MI. Contractors shall contact Mr. Kerry Williams (U.S. Army Corps of Engineers – Detroit District) at 313-226-6147, to arrange for the site visit.
10. All required work shall be completed in accordance with the USACE Safety Manual (EM 385-1-1).
11. The Contractor shall be responsible for the cost of repair of any damage to any underground or overhead utilities and any other service lines.
12. The estimated quantities for this project are

Earth Embankment	20,000cy
Track Bed & Road sub grade	12,000cy
Track Bed Ballast sub base	450cy
Road gravel	380cy
Ballast stone stockpile	350cy
Topsoil, Seed, Fertilize, Mulch	7,750sy
Materials Testing	
Topographic Surveys	

QUOTE ITEMS SCHEDULE

1. Job Lump Sum

An equipment list for the project will be submitted with the bid. If the actual quantities exceed the estimated quantities by greater than 15% an equitable adjustment will be negotiated.